

NETWORK SECURITY

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The **Information and Emerging Technology** department consists of three IT majors: Web Programming/Computer Programming, Digital Media Technology, Network Security, and two emerging technology majors: Operations Excellence and Food Science.

Each of these majors provide the students with a valuable education using state-of-the-art coursework, equipment and technology.

The **Network Security Major** stresses the design, installation, security and maintenance of a computer network. This major also provides the coursework that will train the students to design, build and implement complete end-to-end security solutions. The coursework will also provide exposure to various digital, computer, and network forensic methods, VPNs, secure remote access, and disaster recovery techniques. Course content covers objectives for various certifications including:

- **A+**
- **Cisco Certified Network Associate**
- **Cisco Certified Network Associate - Security**
- **Cisco Certified Network Associate - CyberOps**
- **Microsoft Certified IT Professional**
- **Microsoft Certified Technology Specialist**
- **Linux+**
- **LPIC-1**
- **Network+**
- **VMware Certified Professional**
- **Certified Ethical Hacker**
- **Security +**
- **Palo Alto ACE**

Rhodes State College is an official Microsoft Information Technology Academy, which means that Rhodes State College is an authorized training partner with Microsoft and we use **official Microsoft curriculum in our Microsoft courses**.

In order to become a **Microsoft Certified IT Professional (MCITP)**, students should take CPT 1410 Microsoft I, CPT 1415 Microsoft II and CPT 1420 Microsoft III and pass the associated Microsoft exams. Passing any one of these exams would give the student the **Microsoft Certified Technology Specialist** certification. Both of these courses use official Microsoft curriculum.

Rhodes State College is an authorized Local Cisco Network Academy which means that Rhodes State College is an authorized training partner with Cisco and we use **official Cisco curriculum in our Cisco courses**.

In order to become a **CCNA(Cisco Certified Network Associate)**, the student should take CPT 1705 Cisco I - CCNA, CPT 1715 Cisco II - CCNA, CPT 2705 Cisco III - CCNA and CPT 2715 Cisco IV - CCNA and pass the CCNA exam.

In order to become a **CCNP (Cisco Certified Network Professional)**, the student should take CPT 2740 Cisco V - CCNP and CPT 2741 Cisco VI - CCNP and pass the associated CCNP exams.

In order to become a CCNA with Security specialization (**CCNAS**), the student should take CPT 2960 CCNA Security and pass the CCNAS exam.

Rhodes State College is an authorized VMware IT Academy, which means that Rhodes State College is an authorized training partner with VMware and we use **official VMware curriculum in our virtualization courses**.

In order to become a **VCP (VMware Certified Professional)**, the student should take CPT 2940 Virtualization I and CPT 2945 Virtualization II and pass the VCP exam.

Technical Standards

See here for details.

Tech Prep Partner

See here for details.

Network Security Major

Associate of Applied Science Degree

Structured Course Sequence (4 Semester Plan)

First Year

First Semester

		Hours
COM 1110✎	English Composition	3
CPT 1410	Microsoft I	3
CPT 1415	Microsoft II	3
CPT 1605	IT Essentials	3
CPT 1620	Linux Administration I	3
SDE 1010✎	First Year Experience	1
Term Hours		16

Second Semester

COM 1140	Technical Writing	3
CPT 1420	Microsoft III	3
CPT 1625	Linux Administration II	3
CPT 1705✎	Cisco I - CCNA	3
CPT 1715	Cisco II - CCNA	3
MTH 1151 or MTH 1260	Quantitative Reasoning or Statistics	3
Term Hours		18

Second Year

First Semester

CPT 2705	Cisco III - CCNA	3
CPT 2715	Cisco IV - CCNA	3
CPT 2930	Ethical Hacking I	3
CPT 2935	Ethical Hacking II	3
CPT 2991	Field Experience	1
HST 1620	American History Since 1877	3
Term Hours		16

Second Semester

CPT 2940	Virtualization I	3
CPT 2560	Server and Infrastructure Integration	3
CPT 2960	CCNA Security	3
CPT 2965✎ 🎓	Applications of Network Security	3
PSY 1010✎ or SOC 1010	General Psychology or Sociology	3
Term Hours		15
Total Hours		65

See here for Portfolio and Capstone information.

Prerequisites:

Students should check course prerequisites before registering.

✎ Portfolio

🎓 Capstone

Cyber Security Certificate

Code	Title	Hours
CPT 1705✎	Cisco I - CCNA	3
CPT 2540	Computer and Network Security	3
CPT 2545	Scripting for Cybersecurity Professionals	3
CPT 2550	Cryptography and Encryption	3
CPT 2555	Network Forensics	3
CPT 1940	Introduction to Cybersecurity	3
CPT 1945	Introduction to the Internet of Things	3
CPT 1950	Security Awareness	3
CPT 1955	Firewall Essentials	3
CPT 1715	Cisco II - CCNA	3
Total Hours		30

✎ Portfolio

See www.RhodesState.edu/GainfulEmployment for additional information on certificates.